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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/039,867 12/20/2001		12/20/2001	Jieming Qi	A0312/7418/SJH/MXS 8359	
23628	7590	06/07/2005		EXAMINER	
WOLF GR	EENFIEL	LD & SACKS, PC	MAI, TAN V		
FEDERAL 1	RESERVE	PLAZA			
600 ATLANTIC AVENUE				ART UNIT	PAPER NUMBER
BOSTON, MA 02210-2211				2193	

DATE MAILED: 06/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/039,867	QI, JIEMING					
Office Action Summary	Examiner	Art Unit					
	Tan V. Mai	2193					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status .							
1) Responsive to communication(s) filed on 03 January 2005.							
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) <u>1-15 and 17-46</u> is/are pending in the a	application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>17-45</u> is/are allowed.							
6)⊠ Claim(s) <u>1,6-8,10 and 12-15</u> is/are rejected.	6)⊠ Claim(s) <u>1,6-8,10 and 12-15</u> is/are rejected.						
7) Claim(s) <u>2-5,9 and 11</u> is/are objected to.	7) Claim(s) <u>2-5,9 and 11</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)						
Notice of Draisperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)					

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1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Claims 1, 6-8, 10 and 12-15 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Shigehara et al.

As per independent claim 1, Shigehara et al teach, e.g., see Figs. 8-9 and 12-13, the claimed invention. The partial product bit circuit comprises less than six levels of combinatorial logic which receives multiplicand bits Xi & multiplier bitsYi and provides a partial product bit (e.g., output of OR gate 225 of Fig. 8).

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As per dependent claims 6-7, Shigehara et al teach the claimed feature because the partial product bit circuit comprises FOUR levels of combinatorial logic.

As per dependent claim 8, the inputs of inverters (236) in Figs. 9 and 13 are partial product bits. Therefore, the partial product bit circuit comprises THREE levels of combinatorial logic.

Due to the similarity of claims 10 and 12-15 to claims 1 and 6-8, they are rejected under a similar rationale.

- 3. Claims 2-5, 9, 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. The following is an examiner's statement of reasons for allowance: the recorded references do NOT teach or suggest: (1) the "partial product bit generator circuit" having the detail of first, second and third circuit as recited in dependent claim 2 and independent claims 30, 37 and 45; (2) the "method for use in performing multiplication"

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having the detail of THREE generating steps as recited in dependent claim 11 and independent claims 17 and 44.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

- 5. Due to the new grounds of rejection cited above, that the office action is NON-FINAL.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan V. Mai whose telephone number is (571) 272-3726.

 The examiner can normally be reached on Mon-Wed and Fri. from 9:30am to 2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on (571) 272-3719. The fax phone number for the organization where this application or proceeding is assigned is:

Official

(703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.

Tan V. Mai Primary Examiner